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INFORMATION REPORT INFORMATION REPORT

- 2 -

ZIL AUTOMOBILE PLANT IN MOSCOW

Identification, Location, and Description of Plant

1. The ZIL Automobile Plant on Avtozavodskaya ulitsa, Proletarskiy Rayon, in Moscow was subordinate to the Ministry of Automobile and Tractor Industry. The plant comprised forty-four buildings, thirty-three of which were directly concerned with production. Three of the latter were restricted shops. Construction of additional buildings was planned. The irregular, ll-kilometer enclosing wall was of wood about four meters high, excepting the frontage on Avtozavodskaya ulitsa, which was composed partially of brick and cement seven meters high and partially of a four-meter-high iron grating.

Description of Plant Building and their Functions

- 2. The numbers in parentheses correspond to the numbers on the sketch of the plant layout on page 25.
 - (1) Foundry No. 1, located in a three-story, brick building with metal roof framework, 60m x 60m. The side of the building facing Avtozavodskaya ulitsa was entirely of glass. The first and second floors were occupied by the foundry, which smelted aluminum, copper, brass, and bronze used in carburetors, push button and other parts

 The foundry contained several gas-fired furnaces without smoke stacks and well-maintained Soviet-made machinery. Special presses were used in casting aluminum to prevent porosity. Electrical parts castings were sent by truck to building No. 15.

25**X**1

25X1

The foundry employed 300 men on each of three shifts.

The third floor of the foundry building was occupied by laboratories, offices, the Red Corner, snackbar, library, and other facilities.

25X1

foundry No. 2, a one-story, 300m x 60m brick building, 15 meters high, with a glass roof and several iron smoke stacks projecting two to three meters above the roof. It had a basement which was used for sand and residual material. Foundry No. 2 smelted iron and steel for engine blocks, piston rings, valves, and connecting rods. It was equipped with two well maintained, three-carbon electrode furnaces. Each furnace had two conveyors. The molten metal was first poured into containers carried by an overhead conveyor and then into molds on a chain conveyor. The foundry also had Soviet-made lathes, milling machines, and other machine tools for repairing shop equipment. Castings from foundry No. 2 were sent by conveyor to building No. 8 and to shop No. 4. The foundry employed about 300 workers on three shifts.

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25X1

(3) Foundry No. 3, locatediin a 150m x 100m, 20-meter high brick building which had a metal roof with a large skylight. The north quarter of the building had three floors; the remainder had only two, the second being incomplete to allow space for cranes traveling. Foundry No. 3 occupied the first floor and it cast engine blocks, pistons, connecting rods, cylinder heads, and other parts. It was equipped with three Soviet coal and coke furnaces for iron and steel smelting, several Soviet vibrators for preparing molds, and two 70-ton overhead traveling cranes for feeding the furnaces and transporting molten metal. In the basement, machine tools were installed for repairs; there were also ventilators for carrying off exhaust gases and dust, as the building did not have any chimneys. About 2,000 workers were employed in three shifts.

25X1

On the second and third floors of this building were located offices, laboratories, dressing rooms, the Red Corner, library, and dining room.

There were 450 workers employed on

25**X**1

(4) Foundry No. 4, a one-story, 100m x 50m brick building. Reinforced concrete columns supported the metal because of the glass sawtoothed roof. A brick smokestack projected 15 meters above the roof. Foundry No. 4 was not concerned with mass production, but supported all the sections. It worked special pieces to repair machine tools.

25X1

three shifts.

(5) Model-making shop, which occupied three stories of a four-story, 150m x 40m, 25-meter high brick building. The glass and metal saw-toothed roof was similar to that of building No. 4. The model-making shop supplied plaster, wood, and metal molds to the four foundries (Nos. 1, 2, 3, and 4). The fourth floor contained offices, restaurant, showers, library, and the Red Corner.

Machine Shop No. 4, a one-story brick building, 50m x 50m, and 12 meter high with a metal and glass saw-toothed roof. The shop assembled the differential rear axle, and entire car chassis including the wheel rim and the forward differential in certain vehicles. The shop was equipped with a large quantity of well maintained, Soviet and Foreign made machine tools, such as lathes, planers, and milling machines. The products were sent by conveyor belt to machine assembly shop No. 1 (No. 7b). There were three work shifts

The building had a small second story along the east side, covering

25X1

about one-fifth of the surface area and housing the offices, Red Corner, restaurant, library, and showers.

7) Temmering shop, machine assembly shop No. 1, and shop No. 4, locate

- (7) Tempering shop, machine assembly shop No. 1, and shop No. 4, located in a brick building, 300m x 300m, and 15 meters high with a glass and metal saw-toothed roof. Most of the building was pf one atory, excepting the old part, which had three floors; the second and third were used for the offices, laboratories, Red Corner, restaurant, and library.
 - (a) The tempering shop processed almost all the automobile parts excepting the crank-shafts. The shop was equipped with ten well maintained, Soviet tempering furnaces: Eight were gas

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and two electric. One of the electric furnaces had a container of molten lead, for special hardening processes.

There were also some acid cells, and lathes for shop repairs.

The tempered parts were distributed among the various shops by light towing trucks with electric platforms.

there were no more than 100 employees working each

25X1 25X1

shift.

(b) Machine Assembly shop No. 1 completely assembled trucks types 150 and 151. It received partially assembled parts from the following shops.

Part	How received and condition	Shop from which received
Front and rear axles	by electric plat- form	machine shop No. 4 (No. 7c)
Engines	by conveyor belt; assembled and tested	machine shop No. 3 (No. 8b)
Gear boxes	by conveyor belt	machine shop No. 4 (No. 8a)

and clutches

Truck cabs and bodyworks by aerial cable; bodywork shop (No. 20a) painted and finished

Chassis and by truck; painted stamping shop (No. 19a) fenders and finished

Electric main electrical section (No. 15a) lighting apparatuses and starter

Batteries by truck battery shop (No. 27)

Springs by truck shock absorber shop (No. 17a)

Assembly shop No. 1 was equipped with lathes for final adjustments of the parts and a large number of blocks and tackles to to facilitate the assembling of engines, chassis, axles, and heavy parts. The trucks were tested in the plant area and returned to this shop if there were any adjustments needed. Once good performance was demonstrated, they were driven to the railroad station next to the plant and shipped by truin. The shop employed 100 workers on each of the three shifts.

(c) Machine shop No. 4 finished the pinions, rear axle shafts, and planetary transmissions, and completely assembled the front and rear axles of various vehicles produced by the plant. The shop was equipped with Soviet, German, and Swiss machines such as lathes, milling machines, boring mills, planing machines and saws. The shop worked three shifts.

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- Machine and motor shops building. This was a 300m x 200m, two-(8) story brick building containing several shops. It had a glass and metal saw-toothed roof and a large basement used for storing tires, radio and radar apparatuses, and electrical parts. Trucks continually delivered and picked up equipment from the basement. In 1946 or 1947, all the materials stored in the basement were destroyed by fire, however the building itself was not damaged. The first floor of building No. 8 housed machine shop No. 4, machine shop No. 3, a tempering shop, motor shop No. 1, motor shop No. 2, and the firemen; s barracks. The second floor housed the guards' barracks, known as No. 100 in all plants; the central telephone switchboard, laboratory for photographic reproduction of planned construction, several laboratories related to first floor production, offices, dining room, libraries, showers and dressing rooms. About 4,000 workers were employed on three shifts.
 - (a) Machine shop No. 4 assembled motor parts. The shop was equipped with well-maintained, Soviet and foreign machinery, such as lathes, milling machines, boring mills. The assembled parts were sent by conveyor belt to motor shop No. 1.

25X1

(b) Machine shop No. 3 probably complemented the work done in machine shop No. 4.

| machinery, but it was similar to that in shop No. 4.
| the parts were sent by conveyor to motor shop

25X1

No. 1

(c) The tempering shop hardened many parts, principally crank-shafts. It was equipped with several gas furnaces and some machine tools for shop repairs. The crankshafts and the other other tempered parts were sent on electric platforms to motor shop No. 1 and possibly to other shops.

25X1

(d) Motor shop No. 1 carried out the first step in semifinishing and assembling the truck motors for types 150 and 151.

The shop had the usual machinery: grinders, emery-machines, boring mills, lathes, and milling machines. The semiassembled motors were sent by conveyor to motor shop No. 2.

25X1

(e) Motor shop No. 2 completed the assembling of the truck motors for types 150 and 151. It was equipped with the same kind of machinery as motor shop No. 1. The completed motors were carried by areal conveyor to machine assembly snop No. 1 in building No. 7.

25X1

(9) Machine and nickel-plating shops. This was a two-story, brick building, 300m x 100m with the same type of roof as the other buildings. On the first floor were installed an unidentified machine shop, a polishing and nickel-plating shop and a large, unidentified laboratory. The second floor was used for another laboratory, offices, library, dining room, infirmary, and Red Corner.

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25X1

The drop forge shor constructed different kinds of dies and matrixes for stamping-presses and for forges. The products were taken by truck to the forging and stamping shops. The shop was equipped with many planers, universal lathes. turrets, boring mills, and milling machines.

25X1

25X1

(23) Drop forge shop. This was a one-story, 50m x 30m brick building with a glass, saw-toothed roof. The north and south walls were glass with a 15-meter brick base. The drop forge shop constructed large dies for stamping H or U beams for the chassis, dies for forging crankshafts, and molds for air pressure-smelting aluminum. The dies were sent by truck to the stamping and forging shops and the aluminum molds, to foundry No. 1 in building No. 1 The shop had a large quantity of machinery

25X1

Pipe shop. This was an old building, reconstructed with concrete pillars and an iron roof frame to support the metal roof. It had one story, was 40m x 30m, and eight meters high. The pipe shop constructed pipes from sheet iron for making bicycles and exhaust pipes. The shop had only one machine which automatically rolled the sheet metal into tubes and then welded them. This machine was of the most recent Soviet manufacture. It was 25 meters long, 1.5 meters wide, and 1.20 meters high.

25X1

The shop had a large and complex control panel. The snop was directed and controlled by only one worker. Four or five persons worked one shift. The bicycle tubes were transported by truck to the bicycle section in semi-restricted building No. 1.

25X1

Shop for drawing and gauging rods and fire. This was an old, 50m x 60m, 15-meter-high, brick building with a metal roof and large windows. It was reconstructed with concrete columns and an iron roof frame. The shop stretched and gauged rods and wire of wrought iron. It was equipped with five or six special machines with horse power ranging from 50 to 100 MT. for realizing this process: the wire or rods were caught by one and in a vice and were then passed through a matrix which both gauged and hardened them. They were then taken in rools or bundles by electric platforms to the warehouse in building No. 8 where they were submerged in vats containing a liquid

25X1

and wire were sent to the nails, screws, and bolts shop in building No. 10. Building No. 25 was also equipped with several cranes and some lathes. There were three work shifts

25X1

(26) Forge shops Nos. 1, 2, and 3. This was a one-story, brick building with a gabled, metal roof. The lateral walls were glass with a 1.5 meter-high, brick base. The building had three wings which were joined by a fourth wing at the northern

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extremity. The three principal wings measured 400m x 40m each and were not less than 18 meters high. Beneath each wing was a tunnel where the steam pipes for the drop hammers were installed.

Forge shop No. 1 was located in the west wing. It forged light parts, particularly instrumental, such as wrenches, pliers, etc. The shop was equipped with 25 small drop hammers, several gas-oil furnaces to heat iron and two cranes. Part of the products were senttto the tool shop in building No. 12.

25X1

Forge shop No. 2 was located in the central wing. It forged inter-mediate automobile parts and also some washers with a diameter of from 250 m/m to 100 m/m and a thickness of 25 m/m. The shop had several hammers with intermediate horse power, several gas-oil furnaces for heating the materials, two cranes, and several powerful shears.

25X1

25X1

Forge shop No. 3 was located in the East wing; it was constructed in 1951 or 1953 and was the newest part of the building. It forged heavier parts, particularly crankshafts of different sizes. The shop was equipped with 10 powerful drop hammers with a gaseoil furnace for each one, two cranes, and several guillotine cutters for cutting iron billets to a thickness of 1.80 m/m. Before leaving the building the products manufactured in the three forge shops passed through an emery section where burrs were removed and were then taken by truck to machine shop No. 4 in building No. 8. All the shops had three shifts and there was a large number of workers.

25X1

(27) Battery and electric car repair shops. This was a two-story, 150m x 50m, building with a gabled, metal roof. The north and south walls were glass with a 1.5 meters, brick base. There was a basement garage for the electric cars and platforms. The battery shop occupied the first floor. It charged old and new batteries made in an affiliated Moscow plant

25X1

The new batteries were taken by electric

25X1

car to machine assembly shop No. 1 in building No. 7.

25X1

There were three shifts. On the second story were installed laboratories, with many electric furnaces; offices; infirmary; library; red corner; dining room; and also assmall shop for repairing and winding electric cars. This shop was equipped with various Soviet-made machine-tools. It employed few workers and there was just one shift.

25X1

(28) Boiler room. This was a one-story, 80m x 70m, building, about 20 meters high. The north and south walls were glass with brick bases. About eight meters from the north side of the building was a 60-meter-high, brick chimney which was the draught for the two boilers housed by the building. The steam pipes were installed in the basement.

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	The boiler room supplied steam pressure to forge shops Nos. 1,2, and 3 in building No. 26, and steam-heated the entire plant. The shop had two steam turbines which continually generated electricity for supplying the battery shop in building No. 27, and for several other shops equipped with hand tools. In case of emergency, this building supplied electricity to the entire plant, using only the two boilers and two alternating-current generators geared to transform the current at any moment. The generators used ground coal and of the shop was equipped with the following well-maintained, Soviet machinery:	1.
	2 tubular boilers 2 steam turbines 2 alternating-current generators 2 coal-grinders	25X1
29)	Oxigen Bottle Repair shop and electrodes shop. This was a one-sto 80m x 50m, 10-meter high brick building with a metal roof, and	ry, 25X1
	It housed a shop for repairing and charging bottles of oxygen and compressed acetylene used for welding, and also a small shop for producing welding electrodes. Both shops worked only one shift.	25X1
	high, brick building with a metal roof and large windows. The sawmill cut rough wood into planks for truck bodywork. The shop was equipped with the following well-maintained, Soviet machinery: 20 disc saws, 20 planers, and some hot steam dryers for drying the planks. The sawed wood was either stored in the building or taken by truck to the bodywork shop in building no. 20. There wer three shifts	e 25X1
(31)	Unidentified.	
<i>,</i> _,	there was a kind of shipyard within the building for the construction of barges with and without motors. It had a small port.	
32)	Power transformer. This was a 70m x 70m, 15-meter high, brick building with a metal roof. The north wall had large windows and many iron doors. Entrance to the building through other doors was prohibited. It housed the sub-	25X1
33)	Administration building. This was four-story, 50m x 50m, house occupied by the offices of the plant director and administrators.	25 X 1
34)	Carpenter shop. This was a two-story, 50m x 30m brick house without interior columns and with a metal roof. It was old and poorly maintained. The first floor housed the carpenter shop and two or three small store rooms for construction for construction materials. On the second floor were installed the offices, dining room, library, red corner, and other facilities.	
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(35)	constructed fur other facilities tandard machine Five-hundred constitt.	machine assembly shop No. 52. This was a large	25)
(3)/	one-story, bri metal roof. I cables, wire, well as mechan necessary for	ck shed, 40m x 20m and seven meters high, with a in this warehouse were stored altimeters, ammeters, and many other kinds of electrical equipment as ical parts, suchesserollernandstandard bearings, the assembly or installation of plant machinery. the warehouse mully full.	25X 25)
(36)	Garage. This 15 meters high trucks were pa for truck repa there was a sm plant director hundred trucks some were from mark "ZIS"; ho which were tra trucks were us trailers were garage also en and about 50 v	was a one-story, brick building, 250m x 200m, and a, with a metal roof and large windows. The plant trked in the garage which also had a small shop air and a gasoline and oil pump. At one side, hall parking space for the passenger cars of the and principal chiefs. The majority of the eight kept in the garage were three ton trucks, bot a six to eight tons and almost all had the trade-wever there were some acquired before World War II ademarked Studebaker, Ford, and Mack. These 800 sed to deliver raw materials to the plant. Several used, especially for the delivery of tires. The aclosed buses for service throughout the installation very small trucks which pulled from two to three a total displacement of 1.5 tons.	
(37)	constructedning of cement plan The constructing tower cranes, equipment which of residences was equipped to and one vertice several grinding.	shop. This was a one-story, 40m x 30m brick building 1956. The structure had large windows and a roof aks covered with coal-tar pitch for water proofing. In shop repaired, assembled, and adjusted elevators, concrete-mixers, vibrating sieves, and all the ch pertained directly or indirectly to the building for plant personnel and their families. The shop with three universal lathes, one planer, one horizont cal milling machine, a cutting and stamping press, ing machines, five electric welding sets and two ets. Fifty persons worked one shift.	
(38)	15-meter high glass with 1.5	r shop. This was a one-story, 50m x 40m brick buildi constructed in 1952. The east and west walls were 5 meter-high brick bases. The shop repaired the d equipment; such as tracks, signals, etc. The traversed by a railway with two north-south spur	25X1
(39)	atows 60m x	hop and refrigerator shop. This was an old, one- 50m, 12 meter high building, reconstructed in a manne e other buildings. It had large windows on all sides oof.	er s
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	stor	emery stone construction shop supplied the plant with es of different characteristics and forms.	25 X 1
		were generally used to cut iron teel billets, to hew, and also to polish. The shop oyed 80 persons on one shift.	25 X 1
	medi and	refrigeration shop constructed cold storage rooms of a um capacity for restaurants, dining rooms, and other facilistandard refrigerators, which were sold commercially loscow. These refrigerators were produced in series, The shop	·
	empl	oyed 500 persons on three shifts.	25X1
(40)	three-sto a funeral tinction.	haple, club, library, and theater. This was an old, ry, 50m x 50m, building. Whithe first floor was used as chapel for workers who died and were worthy of disthe second floor was used for the club and theater; hird, for the library.	
(41)	60m x 60m roof. It divided to practice gymnastic The techn	and apprentice schools. This was an old, well-mainted building with four stories, many windows, and a metal is four floors were occupied by both schools and were y walls. The basement was for the instruction and of sports such as flotball, boxing, wrestling, and s for plant employees and students who wished to participatical school taught plant workers to improve their standing	
	fields ne	d them to become technicians in any of the specialized eded in the plant, especially electricians and mechanics.	
	fields ne The stude pletion o	d them to become technicians in any of the specialized	
	fields ne The study pletion of for pract The appreprofession plant emprecessary school when the study of the	d them to become technicians in any of the specialized eded in the plant, especially electricians and mechanics. ets had five hours of classes each day, after the comfither work shifts. There were laboratories and machiner	y 25X1 t
(42)	The appreprofession plant emprecessary school where the 7th appreprofession the 7th apprecessary school where 7th apprecessary	d them to become technicians in any of the specialized eded in the plant, especially electricians and mechanics. Lets had five hours of classes each day, after the comfitheir work shifts. There were laboratories and machiner cical studies. Intice school was attended by youth who aspired to different ans, however it was not necessary for students to be sons of cloyees. The school had laboratories, shops, and all the equipment for practical training. For admittance to the cich was by examination, it was necessary to have finished	y 25X1 t 25X1
(42) (43)	The study pletion of for pract The appreprofession plant emprecessary school with 7th and the 7th and the office union comments of inside. Main dinimitation of final design of the final dinimitation	d them to become technicians in any of the specialized eded in the plant, especially electricians and mechanics. Lets had five hours of classes each day, after the complete their work shifts. There were laboratories and machiner cical studies. Intice school was attended by youth who aspired to different ans, however it was not necessary for students to be sons of cloyees. The school had laboratories, shops, and all the equipment for practical training. For admittance to the cich was by examination, it was necessary to have finished trade. The course lasted two years. In the course lasted two years. In the course of the Party committee, the plant Komsoml, the labor the labor the plant komsoml, the labor the plant komsoml the plant koms	25X1 t 25X1 Om.

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- (44) Policinic. This was a 100m x 70m, five-story building of modern construction, built in 1956.

 There were several elevators and ambulances. The policinic was exclusively for the treatment of plant employees. It had a large capacity and it was said that it had modern equipment.
- (45) Facilities for forge shops Nos. 1, 2, and 3. This was a new 100m x 50m, two-story building, built in 1956. In the first floor were installed showers, dressing rooms, library, and red corner and on the second floor, a large dining room. These facilities corresponded to forge shops Nos. 1, 2, and 3.
- (46) Kennel area. This was a 30m x 40m lot occupied by individual dog kennels where the plant watch dogs were bred and trained. The area had kitchens and electric wiring and was enclosed by a wooden bench.
- (45 bis) Dining room.
- (47) Open air storage site for boards.
- (48) Open air lot for scoria.
- (49) Open air storage site for iron.
- (50) Open air storage site for scrap iron.
- (51) Open air storage site for iron.
- (52) Open air storage site for coal.
- (53) Sports fields.
- (54) Plant railroad station.
- (55). Danilov highway bridge and double track streetcar line.
- (56) Frunze Textile Plant.
- (57) Pervo Maya Textile Plant.
- (58) Kalinin Textile Plant.
- (59) Kozhujovo Railroad Station.
- (60) Passenger pier.
- (61) Freight pier.
- (62) Avtozavodskaya ulitsa.
- (63) Residences
- (64) Residences
- (65) Torpedo Club, swimming pool and bath
- (66) Intersections where city policemen directed traffic.

C-O-N-F-I-D-E-N-T-I-A-L

- 17 -25X1 The gardens, designated by cross-marks, separated the central (67)walk from the roads. (68)Central walk (69)Railroad bridge Products (See shetches Nos. 1 and 2 on pages 23 and 24.) The official names, types and descriptions of the vehicles produced by the plant are ws follows: A seven-ton freight truck with rear wheel drive, trademark ZIL, 25X1 type 150, constructed with an immobile wooden body, and an automatic, metal dump hoist. 25X1 It had a six-cylinder gasoline motor and carried large capacity gasoline tanks on both sides. Type 150 had standard 25X1 foot and hand breaks The truck also had an air brake controlled by a button on the dash board. A truck, trademark ZIL, type 151, with greater freight capacity 2. 25X1 than type 150 truck had a three-axle drive, the two rear axles having four wheels each. It had the same kind of breaks as type 150. 151 was constructed in three different models: 1) with an immobile, wooden body which had rims for attaching tarpaulins, and two laterah folding seats; 2) with a three-ton crane and controlling cab, mounted on the wooden body; 3) with a cab and a hook, which was attached to the chasis, for automatically hitching on and hauling trailers, artillery, and other vehicular equipment. The first two models also carried rear hooks. These models had a front reel, wound with cable, which could be attached to a tree or rock in order to pull the vehicle out of a mudhole. The model No. 1 usually carried seven or eight metal bottles held 25X1 horizontally below the bodywork and above the chasis. These bottles contained compressed gas 25X1 it served as a reserve fuel supply for the vehicle, along with the two lateral gas tanks. This was a military vehicle to which a platform for launching guided missles could be attached. An autocar truck, trademark ZIL, type 154, with six wheels, and 3• a rear motor 25X1 The exterior characteristics were universal Luxury tourist car. trademark ZIL, type 110, with a gasoline motor; 4. 25X1 An ambulance type 110 was also constructed; it had one rear door and two front doors. Armoured truck, trademark ZIL; type unidentified with a powerful 5. 25X1 and 10 wheel, gasoline motor three-axle drive. The steel armour had a thickness of about 25X1 20 m/m; the body was open. The truck had solid tires, however, it was going to be equipped with special It was used for transporting tires C-O-N-F-I-D-E-N-T-I-A-L 25X1

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C-O-N-F-I-D-E-N-T-I-A-L

25X1

C-O-N-F-I-D-E-N-T-I-A-L

19 25X1 25X1 25 freight cars from 30 to 40 tons which were open, closed, or tank cars; three or four cranes for loading and unloading trains, which consisted of a platform above the railroad with a diesel motor, trademarked Yanvaretz. The transportation by 25X1 truck and by train were almost equal, but train transportation was preferred for fuel and iron. Highways and vehicles. 2. All the highways within the plant installations were asphalt and from eight to ten meters wide, with the exception of a two-lane highway which crossed the installation a north-south direction. It was similar to a bulevard and had a central walk and garden at each side. There was a traffic policeman, at each intersection. The roads were always open to traffic and were considered adequate. The vehicles used within the plant installation were the following: 1) Battery-driven cars and platforms were used within the buildings. 2) Light trucks, about 2.5 meters long, and constructed especially 25X1 in this plant were used to haul three or four small trailers. These had a hauling capacity of 1.5 tons They did not carry any special cargo, 25X1 but were used for transportation between nearby buildings. The light trucks numbered about 30, and the trailers, about 60. 3) For service outside the installation, about 800 trucks of better quality were used. Three-tons trucks were the most prevalent, but there were also some 15-ton trucks. Plant Production Figures 25X1 the following figures represented the maximum production unless the possibilities of the plant and the number of workers were increased. 25X1 Truck type 150 - 300 per day Truck type 151 - 150 per day Armoured truck - 7 or 8 per day 25X1 4) Autocars type 154 - 25 per day
5) Luxury car type 110 - 7 or 8 per day, until 153, at which time production of this vehicle was decresed the production figures 6) Amphibian vehicles inferior to the figures for armoured trucks. 7) Bicycles - 2,000 per day 8) Refrigerators and cold storage room - large quantity per day. 25X1 9) Bodywork for small car trademarked MOSKVICH. which was construc-25X1 ted in the Malolitrazhnyy Plant in Moscow. the quantity was surricient to supply the plant. C-O-N-F-I-D-E-N-T-I-A-L 25X1

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C-O-N-F-I-D-E-N-T-I-A-L

, Sanitized Copy Approved for Release 2010/06/23 : CIA-RDP80T00246A047900510001-4 C-O-N-F-I-D-E-N-T-I-A-L 25X1 20 -10) Gasoline motors for tractors. 25X1 11) Tower cranes trademarked UBK (Universal Tower Crant) The production of these cranes was variable, as it was dependent upon the orders for building construction. Each tower crane was operated by five electric motors: two for moving the cranes along the rails in opposite directions; one motor for moving the electric car; one, for operating the swinging jib; and another motor for lifting weights. These 100-MT cranes were 65 meters high and had an average horse power of 5.5 MT. Working Conditions 25X1 The plant generally followed a work schedule of three eight-hour shifts, the shifts however decreased to seven hours. Plant personnel worked every day of the year, except sundays and the following holidays: January 1st, March 8th, a holiday for women only, May 1st and 2nd, June 18th which was a holiday in honor of aviation; November 7th and 8th, and December 5th. There were no definite vacation periods for the entire working force; vacations were given during the whole year. Workers with light jobs were given 20 days of vacation; those with ordinary jobs, 25, and those with difficult or unhealthy jobs were given 45 days of vacation. The average salary was from 800 to 900 rubles monthly, but was decreased about 100 rubles because of the discounts for the syndicates, for cleaning the streets, and the taxes for unmarried persons or married persons with less than three children. Those with three or more children did not have to pay this tax; they were not subsidized for the number of children they had. The sanitary conditions and ventilation were good. The Commission of Sanitation frequently sent inspectors to ascertain the general maintenance conditions. In each shop there was an infirmary with a permanent doctor. The large policlinic was inaugurated in 1956. Plant Security 25X1 Security precautions existed only within the installation. around secret building No. 14 and secret guard posts building No. 13. Guards kept a continual watch next to the exterior wall and were reinforced during the night with more guards and a large number of watch dogs. All the streets in the installation were patrolled. these guards belonged to the MVD. 25X1 there were many. During the night the guards were armed with rifles and pistols, but during the day, only with pistols. In order to enter the plant each worker needed a propusk. Access to all parts of the plant was permitted with the exception of restricted buildings No. 11, 13, and 14. Those who worked in restricted buildings entered them with the same propusk, as it carried the shop numbers. For personnel who did not work in the restricted buildings special permission from the chief of the particular office concerned, was needed in order to enter them. There were four outfits of firemen with their corresponding

fire trucks. Their cuartel was in building No. 8. There was no observation tower, but there were alarms which could be set off in all the shops. Every building had glass cases, with hoses ready to be unrolled and turned on, large numbers of hand extinguishers, and fire hydrants. In each shop there were groups of workers trained in fire fighting. In building Nos 2 and 41 there were modern atomic bomb shelters. These shelters were surrounded by a thick cement wall and covered by a cement roof. Below and separated from the wall and the roof were many 3m x 3m rooms,

C-O-N-F-I-D-E-N-T-I-A-L

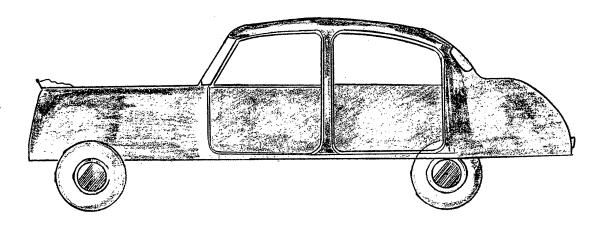
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•	C-O-N-F-I-D-E-N-T-I	-A-L	25X1
	- 22 -		
separated one from anothe The rooms had iron doors, high, and formed an arch; by means of a large fan w	with airtight rubbe they were bolted, s	r stripping, were 1.80 m but. e shelters were ventiled	neters 25X1
Organization and Personne	1		
No. 52 in building No. 21 following manner:	•	was organized in the	bop 25X1
engineer, five or typists. l chief of the elect l chief of the sheet l chief of the tube l chief of the tool Each one of the section of Each attendant was in che eight to ten men each. It secretary of union. It was said that and that about 80 percent	etrical section et metal section es section ling section chiefs was a technication erge of four or five the shop organization the Komsomol, and a about 70,000 persons	brigades which consisted also included a Party a president of the shop a worked in this ZIL Pla	ts. d of labor 25X1
Bouko (fnu) head po Strogov (fnu) head Shlionov (fnu) chic Polkovnikov (fnu) c Konnonov (fnu) cons	engineer of the planef engineer of machineer in charge of	ne assembly shop No. 52. I tool shops. In charge of the con-	25X1
did not have any contact number of chinese who ha	d attended one or tw	o courses in the spirent	iice
sphoelthere working at a		l shops.	25X1
	C-O-N-F-I-D-E-N-T-	I-A-L	25X1

•,	C_O_W_F_T_D_E_N_T_T_A_T.	
•		
	- 22 -	
	•	
did piece work. Abs	r filling the quota, especially to those persons who sences from work were not frequent and those who were fliable reasons were punished.	
Deficiencies, Improv	vements, and Increase in Production	
rnere was a constant	t effort made to increase production on the part of	
the workers who were their incomes. Prod worker's efforts, bu for innovations in t there were weekly te	e stimulated by patriotism and a desire to increase duction increase was achieved not only through the at also through their initiative and frequent proposals the machinery. In order to cultivate this atmosphere, echnical reunions in which engineers and specialized	
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25X1

Sketch No. 1: ZIL 110



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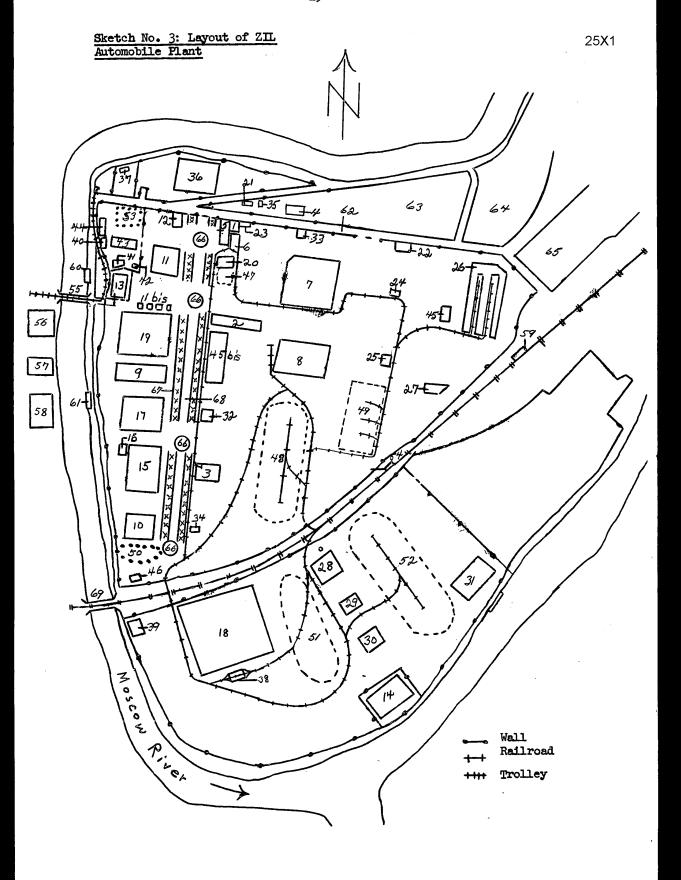


Products of ZIL

Sketch No. 2:



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C-O-N-F-I-D-E-N-T-I-A-L

